



## Biology Seminar Series

Friday, Sep 5, 2025

(12:00 - 1:00 pm) Gilmer 390

## Seham Ebrahim, Ph.D.

Assistant Professor, Molecular Physiology and Biological Physics

### When force is necessary- exploring the structure and function of mechanosensory complexes across organs

Mechanical forces shape physiology across organs, from sensing sound in the inner ear to maintaining barrier function in the gut. This talk will explore how transmembrane channel-like (TMC) proteins assemble into mechanosensory complexes and how their structure and localization drive tissue-specific functions. By integrating cell biological, genetic approaches, computational and structural approaches, we uncover common principles and organ-specific adaptations of these fascinating channels.

Seminar Host: Ariel Pani, PhD

